	Technical Data Sheet
Use in	• Pharmaceutical industry in clean rooms and isolators • For industrial, laboratory & research applications only • Basic medium according to EP 2.6.12, 2.6.13 and USP <61>, <62>
Use for	• Reduction of swarming behaviour of micro-organisms • Detection of aerobic and anaerobic micro-organisms • Contact sampling, personnel monitoring, as well as active air monitoring • Isolation and growth of fastidious bacteria, yeasts and moulds • Neutralization of residues of disinfectants The medium should be applied with a uniform and steady pressure to the surface for few seconds. After sampling the surface must be cleaned to remove residues of the medium.
Typical composition per liter	Proteose peptones Casein hydrolysate Yeast extract Glucose Starch K_2HPO_4 Na-pyruvate $MgSO_4$ (anhydrous) Lecithin Polysorbate 80 Neutralizer PLUS Agar The basic composition of the medium is modified to reduce swarming activity.
Irradiation	• Irradiated at 9-20 kGy
Filling volume	• 16-19 mL
Packaging	• Triple bagged, staples of 10 plates • Transparent • High barrier foil for H_2O_2 as well as for water-vapour • 10 staples of 10 plates per packaging unit • Temperature isolated handle-bag in the cardboard-boxes
Plates per box	• 100 (10 staples with 10 plates each)
Shelf life	• 9 months from production date – preliminary expiry date
Storage conditions	• Recommended storage temperature: 15-25 °C • Should be stored at temperatures as stable as possible • Store protected from light exposure • Before use: it is recommended to keep the plates upright (agar on the lower part, lid on the upper part) to avoid formation of extra condensation • After use: it is recommended to keep the plates upside down (agar on the upper part, lid on the lower part) to reduce the risk of accumulation of condensation during incubation which can affect colony formation
Label	• On the side, at the bottom

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Label information	• Product name: RS enh. • Expiry date: YYYYMMMDD ➔ MMM in letters (e.g.: 2026Nov04) • Lot-number • Individual number • Barcode
Barcode	• 2-dimensional (data matrix), 20 digits: • Digits 1-3: Art.-No. • Digits 4-9: Lot-Number • Digits 10-14: Individual-Number • Digits 15-20: Date (YYMMDD)
Delivery	• Temperature controlled delivery on request • For shipments of larger amounts plastic pallets in Euro-size can be used
Petri dish	• Locking-lid plate, made from polystyrene • Inner diameter: ~ 56.5 mm, thus providing an area of ~25 cm^2 • Outer diameter: ~ 66 mm • Bottom part with 1 cm^2 square grid for facilitated evaluation • Incubations in vent and closed position possible • Specific design to improve binding of agar to plate • Easy handling due to increased handling area
Lid positions	• All plates are delivered in the non-locked position • The plate contains 2 locked positions. If turning the lid clockwise the locked positions are in the following order: 1. VENT position 2. CLOSED position
Aerobic incubation	• The CLOSED position provides ideal incubation conditions for aerobic microorganisms and limits the dehydration of the agar during incubation • For long incubation of aerobic microorganisms, the CLOSED position is recommended • To lock the lid in the CLOSED position; turn the lid clockwise into the final stop position
Anaerobic incubation	• The VENT position is ideal for anaerobic incubations, as it allows an easy and effective removal of oxygen under anaerobic incubation conditions • Incubate in anaerobic incubator, anaerobic jar or suitable equipment 1. First option: • Turn the lid clockwise into the final stop position • Turn the lid one click counterclockwise to the VENT position 2. Second option: • Turn the lid clockwise directly into the first locked position

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Reduction of swarming behaviour	Pharmaceutical manufacturers frequently encounter so-called swarming bacteria during hygiene monitoring in cleanroom areas. Swarming behaviour is common among species of genera like *Pseudomonas, Bacillus, Vibrio, Proteus* and others. If the swarmer covers most of the agar plate, a reliable count is not possible. For example, a swarmer has the potential to overgrow other micro-organisms. In a worst-case scenario, the presence of a swarmer results in a plate that cannot be analysed. The "RS enhanced" medium is capable of significantly reduce the swarming behaviour of most tested fast-spreading strains (e.g., *Proteus mirabilis*, *Bacillus subtilis*, *Bacillus thuringiensis*). In addition, the "RS enhanced" medium is capable of an outstanding inactivation of all typically used disinfectants including even high concentrations of quaternary ammonium compounds, benzalkonium compounds and biguanides thereby enabling the obtainment of reliable results for the environmental monitoring.
Place of production	PharmaMedia Dr. Müller GmbH Gustav-Throm-Str. 1, 69181 Leimen - Germany

	Quality control, Certificates
Certificates	Each lot of product can be obtained with a certificate of analysis (CoA):

Physico-chemical test parameters:				
Appearance	Clear to slightly turbid, yellowish			
pH value	7.1 – 7.5			
Filling volume	16 – 19 mL			
Irradiation	9-20 kGy			
Growth promotion test: 10-100 CFU				
S. aureus	ATCC 6538	30-35 °C	48 – 72 h	50-200%
P. paraeruginosa	ATCC 9027	30-35 °C	48 – 72 h	50-200%
B. spizizenii	ATCC 6633	30-35 °C	48 – 72 h	50-200%
C. albicans	ATCC 10231	30-35 °C	3-5 days	50-200%
A. brasiliensis	ATCC 16404	30-35 °C	3-5 days	50-200%
Inhibition test: 10-100 CFU				
B. cereus	ATCC 14579	30-35 °C	3-5 days	Colony size < 50%
Sterility control				No growth

	Quality control, Certificates
Certificate of origin	All media lots produced by PMM can be obtained with a Certificate of Origin (CoO). All animal derived raw materials are specified as follows: • Raw material • Tissue • Animal source • Country of origin • Infectivity category (acc. to TSE guideline: EMA/410/01 current version)
BSE policy	• In compliance with the current note for guidance on minimizing the risk of transmitting animal spongiform encephalopathy via human or veterinary medicinal products, we check the CoO of raw material in respect to the specified animal source, the country of origin and the infectivity category. We neither store or process ruminant raw materials obtained from high infectivity tissues (IA) nor ruminant raw materials whose animal source originates from countries or regions with an undetermined risk (cat C/GBR IV).

	Safety Data
Toxic ingredients	• None
Basic composition	• See typical composition
Solvent content	• None
Safety data sheet required	• Not mandatorily required